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ARSELA PRELAJ
MILAN, ITALY
MAY 10th 2024 & ONLINE

2nd edition
ARTIFICIAL INTELLIGENCE FOR ONCOLOGY

ASSOCIAZIONE ITALIANA ONCOLOGIA MEDICA

PRELIMINARY PROGRAM

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UNDER THE AUSPICES OF

Faculty

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PRELIMINARY PROGRAM

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Overview

AI methodologies have been applied to medical research for 15 years, and have recently made an imperative entrance in the fields of Oncology, Hematology, and Digital Health. A set of techniques allowing computers to emulate human intelligence, employing algorithms and machine learning to analyze data and the design of either predictions or conclusions based on those analyses. 

The latter is especially important for cancer research because of the vast amount of data available for analysis and that standard analysis methods fail to exploit its full potential. This is particularly the case for multitudes of databases and studies involving the development of diagnostics and translational - research could prove to be an important leap forward for oncology research. Hence, this event will have two core training objectives. The first one is to bridge the gap between cancer research and clinical research into the field of AI methodologies themselves, still misunderstood or not known to its full potential – from a knowledge into the field of AI methodologies themselves, still misunderstood or not known to its full potential – from a misunderstanding of the AI methodologies into the standards of clinical practice for screening and diagnosis.

The second main endpoint will be to demonstrate not only the potential but also the possibilities afforded by the use of AI models, treating patients in a more comprehensive and efficient manner. The focus is to demonstrate in particular innovative activities where they are already being successfully implemented. The second main endpoint will be to demonstrate not only the potential but also the possibilities afforded by the use of AI models, treating patients in a more comprehensive and efficient manner.

The Scientific Committee welcomes the submission of papers on a variety of topics, along with participants with a more specific background in imaging and pathology. 

CALL FOR ABSTRACT

It is for abstracts in open, don’t miss the opportunity to submit your paper! The Scientific Committee welcomes the submission of abstracts.

TOPIC AREAS:

1. Cancer screening with AI
2. Image diagnosis (radiomics and/or digital pathology)
3. Multimodal and/or Multimodal AI
4. Treatment prediction and Selection with AI and Explainability
5. Specific and novel data platforms and Cognitive sensing and wearable devices

SUBMISSION DEADLINES

- 10th January 2024 submission deadline
- 15th February 2024 submission deadline

The event is set to be a full-day program. The speakers will have a diverse background to reflect the spectrum of Artificial Intelligence methodologies, beyond just Oncology. They will include engineers, experts to clinicians and translational researchers, and hybrid figures such as clinical Artificial Intelligence specialists. The attendance is expected to reveal mind-blowing insights into the Artificial Intelligence of tomorrow – how it could be involved as full-ledged actor in clinical decision-making.

Scientific Program

POSTER SESSIONS

08:30 - 09:30 Welcome and Introduction

09:30 - 10:30 Poster Session 1

10:30 - 11:15 Poster Session 2

11:15 - 12:15 Poster Session 3

12:15 - 13:45 Poster Session 4

13:45 - 15:00 Poster Session 5

15:00 - 16:30 Poster Session 6

POSTER SESSIONS

10:00 - 11:00 Integration of digital pathology in monitoring and treatment outcomes and toxicity

11:00 - 12:00 Introduction and Closing

12:00 - 13:00 Closing remarks

SESSION 1

AI ON FORICS AND MULTIMODAL DATA ANALYSIS

Chair: Alessandra Pedrocchi, Arsela Prelaj, Luca Agnelli

Multimodal integration: from methodology to its success translation

Shrah Shab

SESSION 2

AI AND IMAGING: CLINICAL PRACTICE AND APPLICATIONS

Chair: Franco Caveda, Filippo de Braud, Ferrari Roberto

09:30 - 10:00 Imaging in prediction of response to immunotherapy, for example metastatic lung cancer.

10:00 - 10:30 Imaging platform: a systematic search for CT findings in patients with metastatic lung cancer.

10:30 - 11:00 Imaging of prostate biopsy:

11:00 - 11:30 Imaging of prostate biopsy:

11:30 - 12:00 Imaging of prostate biopsy:

12:00 - 12:30 Imaging of prostate biopsy:

SESSION 3

DATA STORAGE AND ITS REGULATORY FRAMEWORK

Chair: Sokol Kosta, Emilia Ambrosini, Laura Mazzeo

10:00 - 10:15 Introduction and Closing

10:15 - 11:00 Introduction and Closing

11:00 - 11:45 Introduction and Closing

11:45 - 12:30 Introduction and Closing

12:30 - 13:15 Introduction and Closing

13:15 - 14:00 Introduction and Closing

14:00 - 14:45 Introduction and Closing

14:45 - 15:30 Introduction and Closing

15:30 - 16:15 Introduction and Closing

16:15 - 17:00 Introduction and Closing

17:00 - 17:45 Introduction and Closing

17:45 - 18:30 Introduction and Closing

18:30 - 19:15 Introduction and Closing

19:15 - 20:00 Introduction and Closing

20:00 - 20:45 Introduction and Closing

20:45 - 21:30 Introduction and Closing

SESSION 4

SESSION 5

SESSION 6